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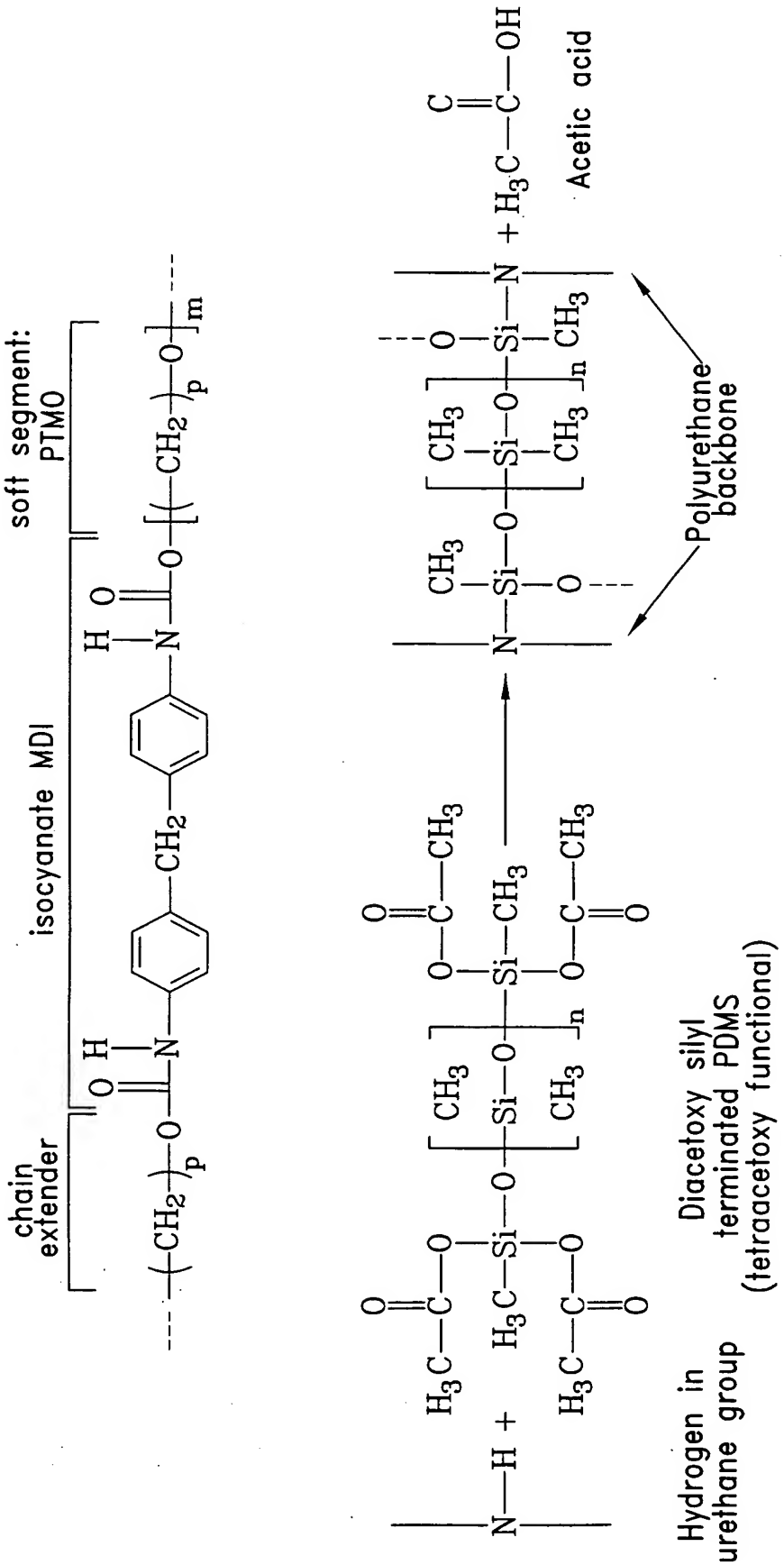
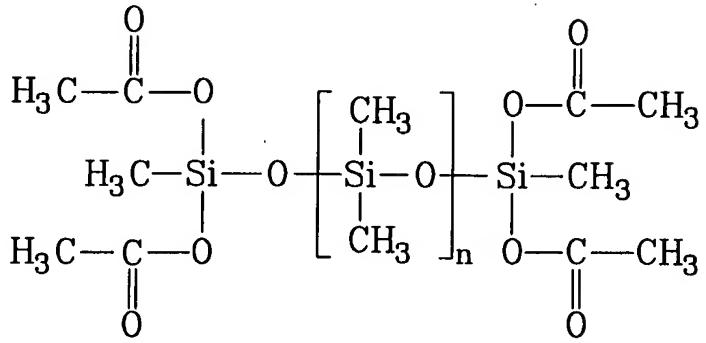
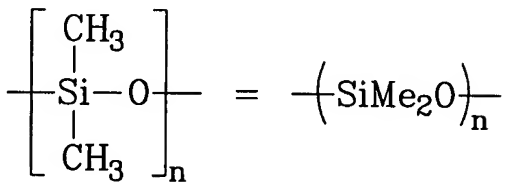


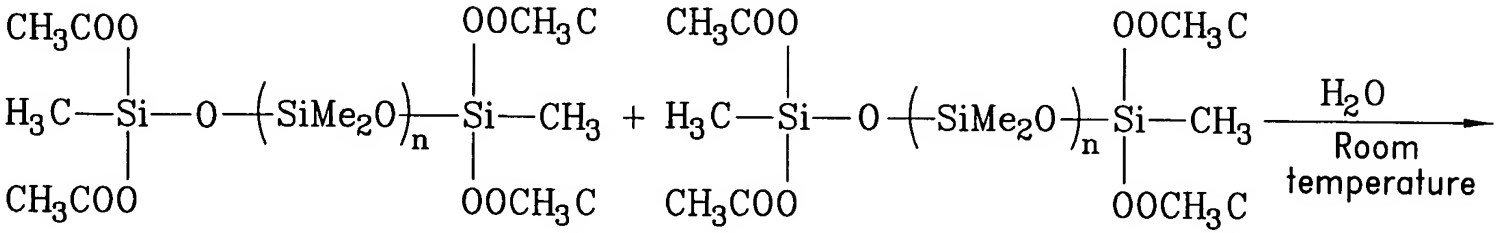
FIG 1

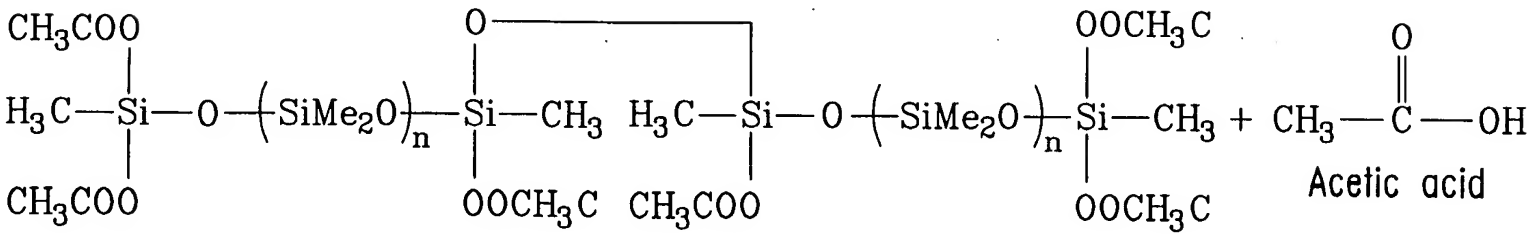


Diacetoxy silyl terminated PDMS
(tetraacetoxy functional)



Dimethylsiloxane unit





Acetic acid

FIG 2

Replacement Sheet

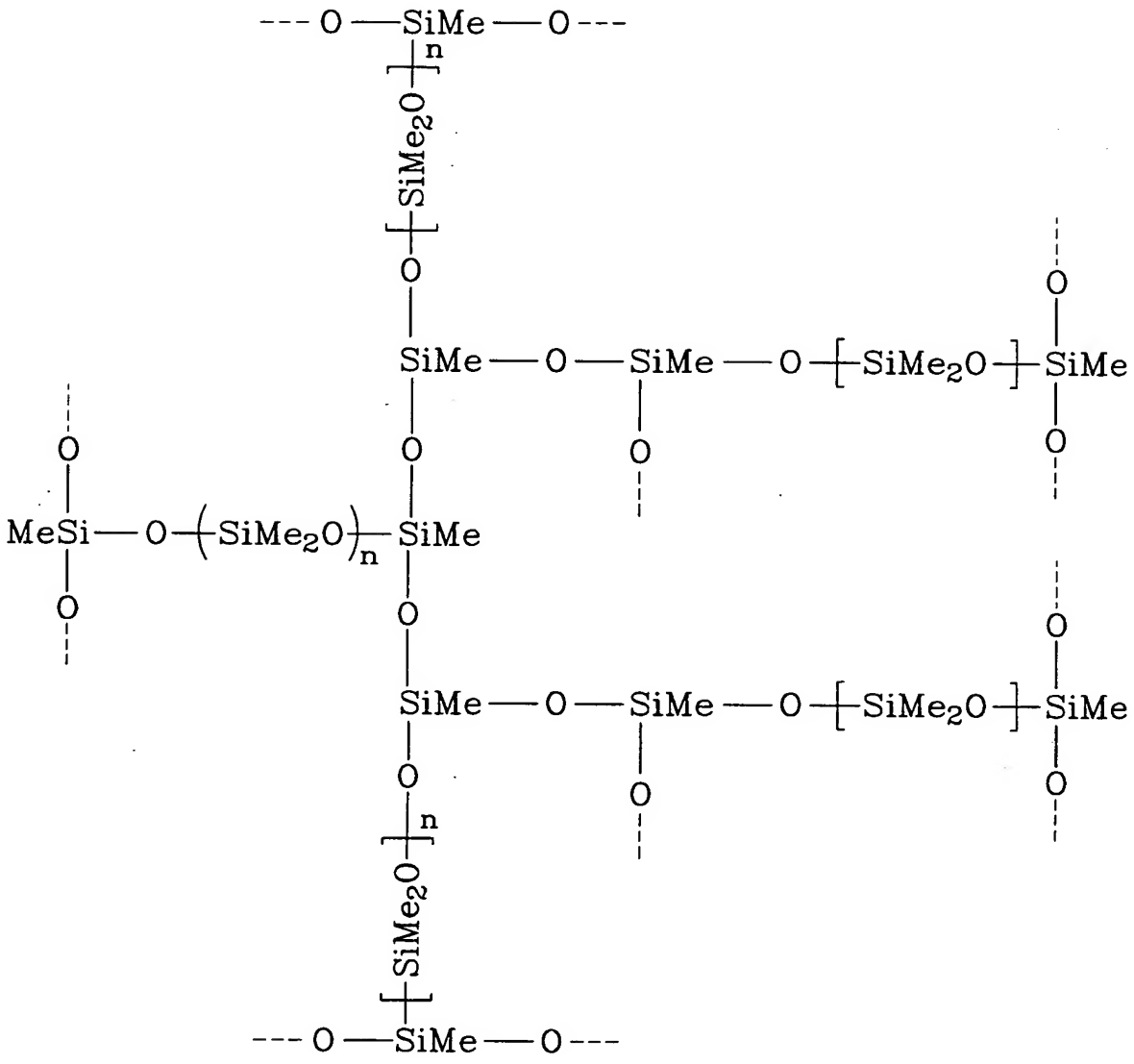


FIG 3

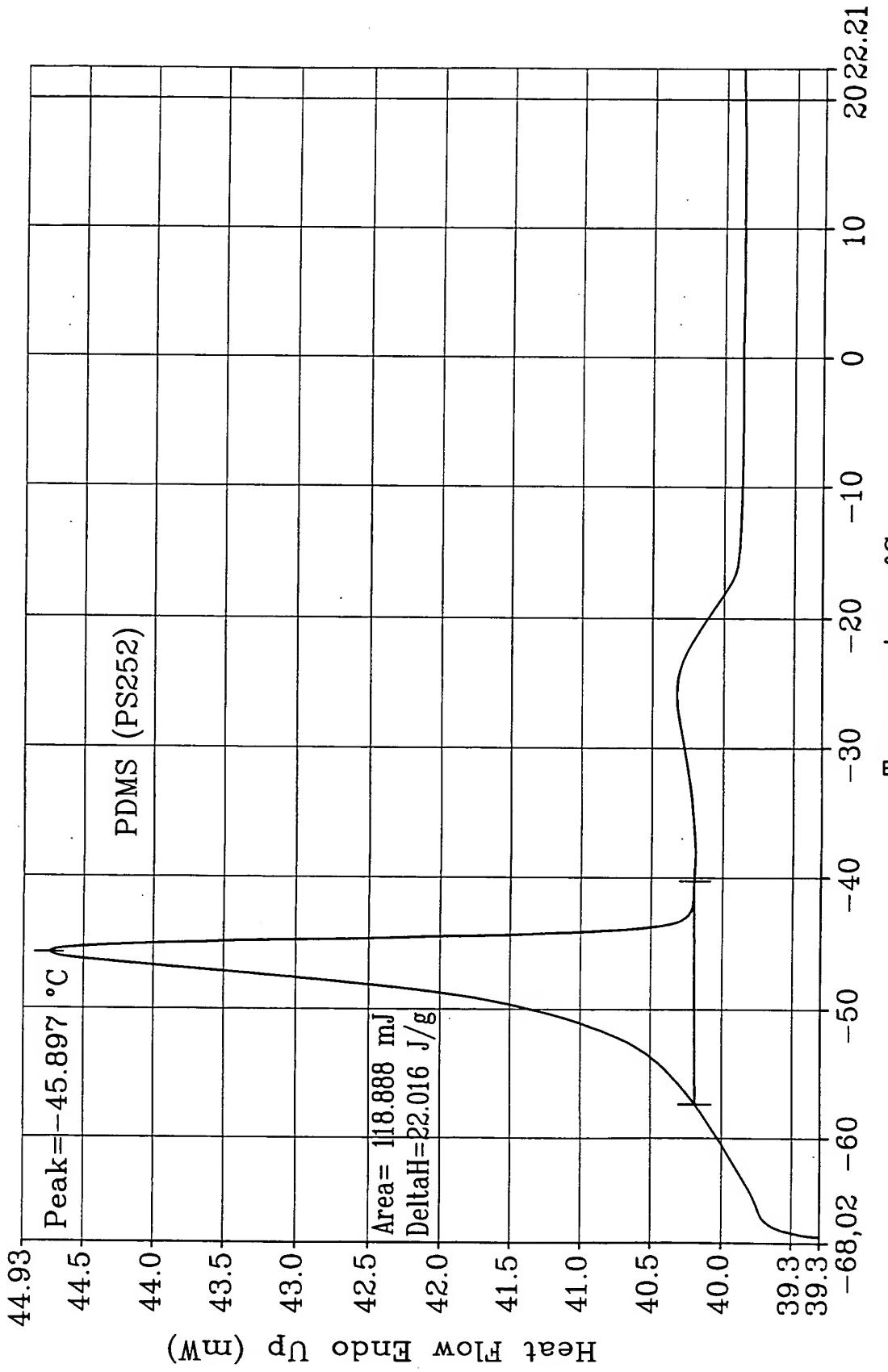

Heat Flow Endo Up (mW)
Temperature °C
PDMS (PS252)
Peak=-45.897 °C
Area= 118.888 mJ
DeltaH=22.016 J/g
44.93
44.5
44.0
43.5
43.0
42.5
42.0
41.5
41.0
40.5
40.0
39.3
39.3
-68,02
-60
-50
-40
-30
-20
-10
0
10
2022.21

FIG 4

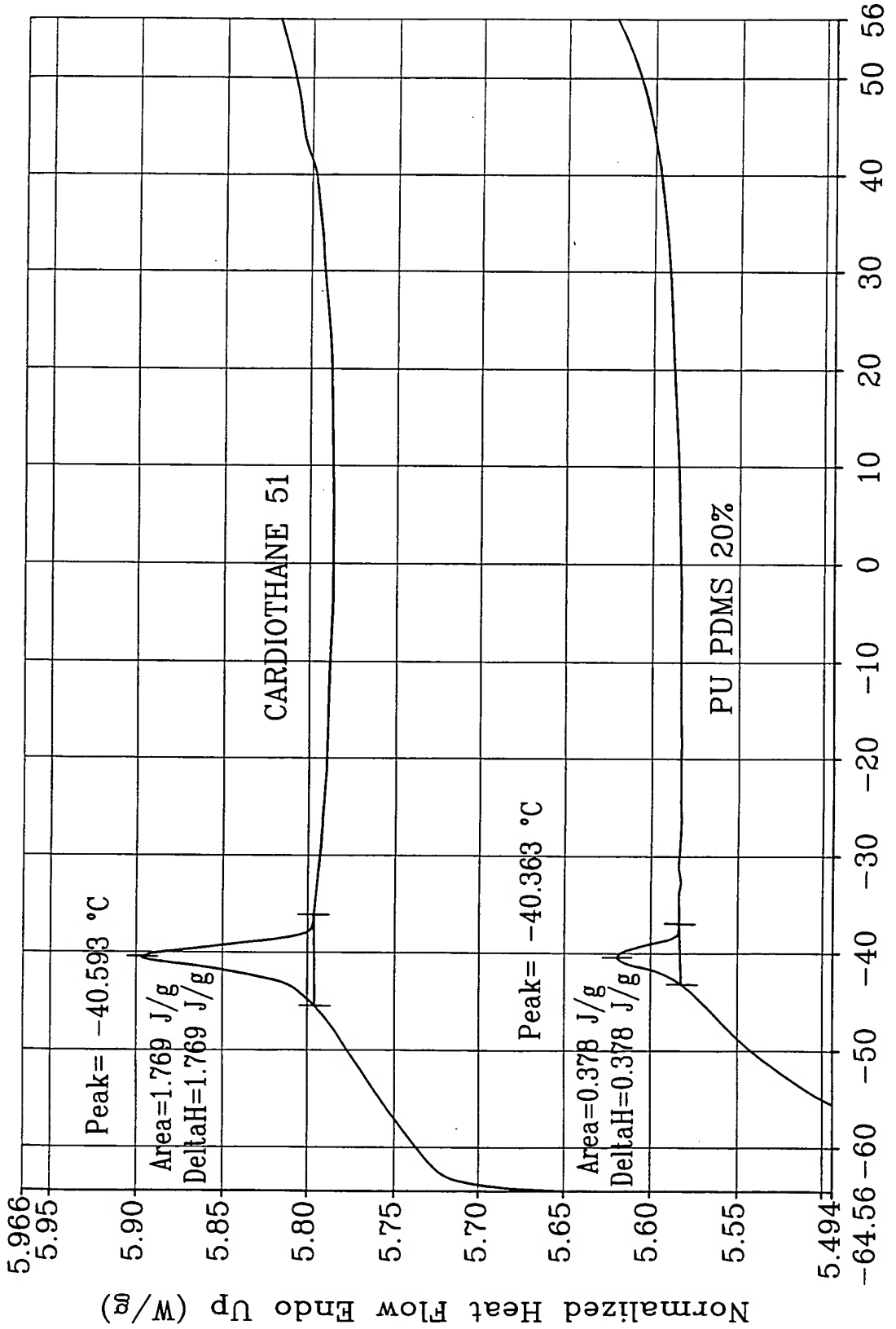

Normalized Heat Flow Endo Up (W/g)
5.966
5.95
5.90
5.85
5.80
5.75
5.70
5.65
5.60
5.55
5.494
-64.56
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
56
Temperature °C
CARDIOTHANE 51
Peak= -40.593 °C
Area=1.769 J/g
DeltaH=1.769 J/g
PU PDMS 20%
Peak= -40.363 °C
Area=0.378 J/g
DeltaH=0.378 J/g

FIG 5

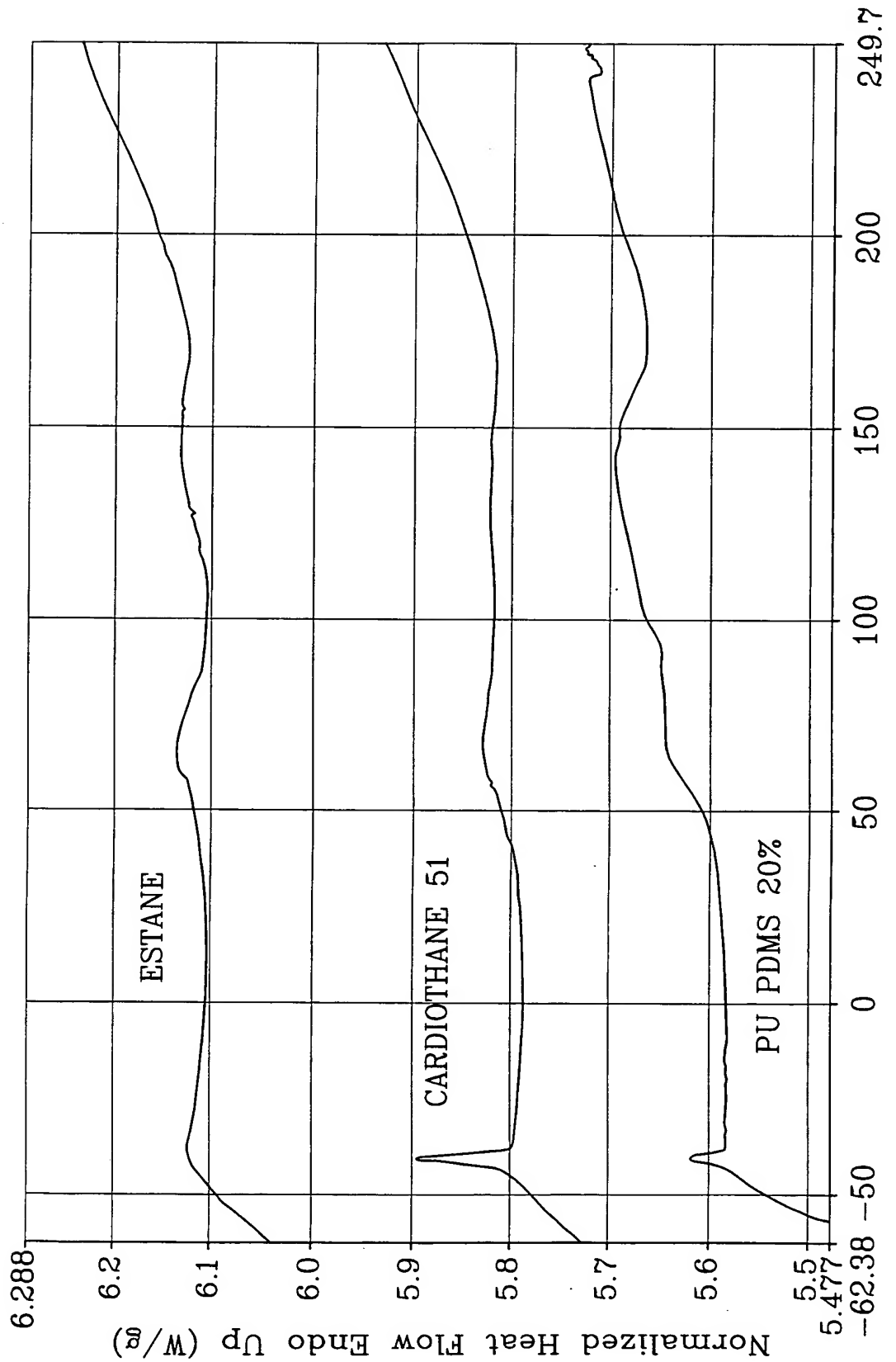

Normalized Heat Flow Endo Up (W/g)
6.288
6.2
6.1
6.0
5.9
5.8
5.7
5.6
5.5
5.477
-62.38
-50
0
50
100
150
200
249.7
Temperature °C
ESTANE
CARDIOTHANE 51
PU PDMS 20%

FIG 6

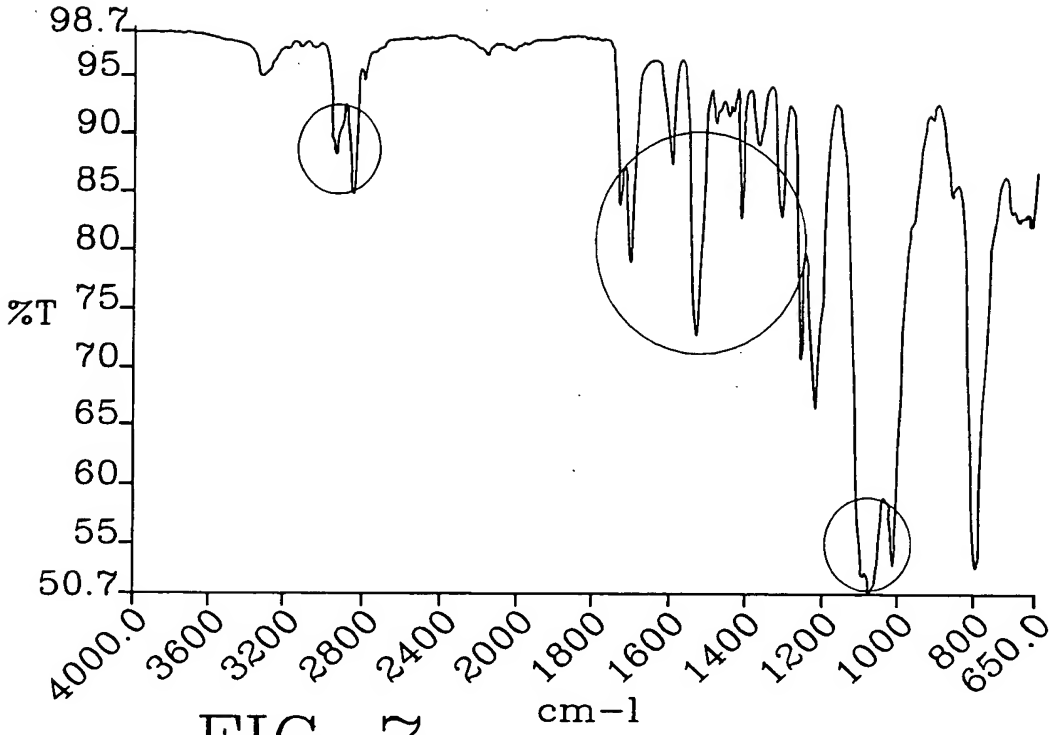

98.7
95
90
85
80
%T 75
70
65
60
55
50.7
4000.0
3600
3200
2800
2400
2000
1800
1600
1400
1200
1000
800
650.0
cm-1

FIG 7

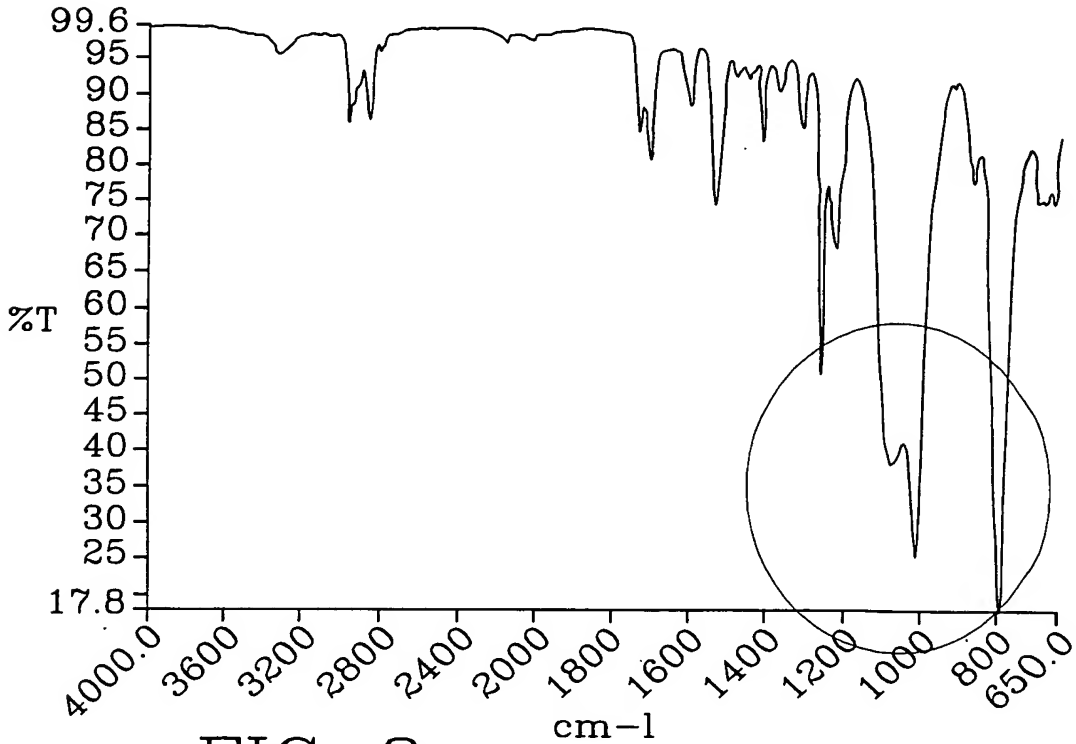

99.6
95
90
85
80
75
70
65
%T 60
55
50
45
40
35
30
25
17.8
4000.0
3600
3200
2800
2400
2000
1800
1600
1400
1200
1000
800
650.0
cm-1

FIG 8